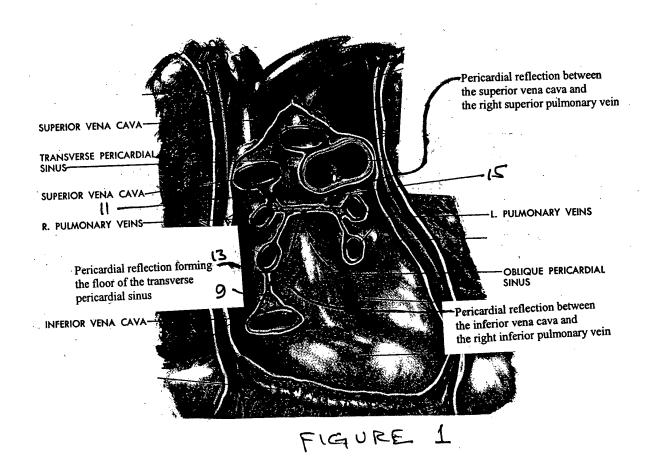
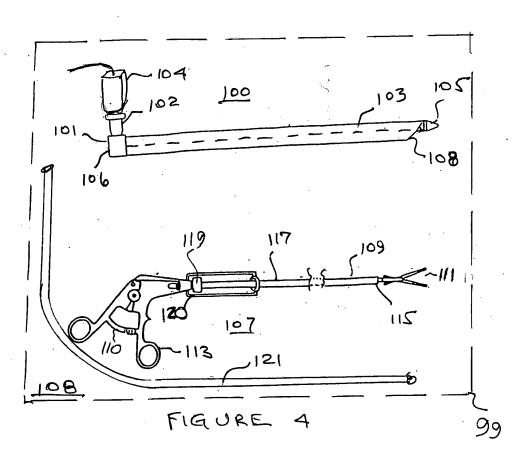
Title: Apparatus and Method for Endoscopic Encirclement of Pulmonary Veins for Epicardial Ablation

Applicants: Albert K. Chin Docket No.: 23488-07931





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PERFORM SUBXIPHOID _____ 17 SKIN INCISION **BLUNTLY DISSECT TO** EXPOSE LINEA ALBA INCISE THE LINEA ALBA — 2 INSERT FINGER TO FORM TRACT TO UNDERSIDE OF XIPHOID PROCESS AND STERNUM INSERT ENDOSCOPIC SUBXIPHOID CANNULA · IN SUBXIPHOID INCISION ADVANCE CANNULA THROUGH DIAPHRAGM TO THE ANTERIOR \sim 27 SURFACE OF THE PERICARDIUM **BLUNTLY DISSECT FAT** FROM ANTERIOR SURFACE OF PERICARDIUM INSERT PERICARDIAL ENTRY INSTRUMENT THROUGH WORKING CHANNEL OF THE ENDOSCOPIC CANNULA GRASP PERICARDIUM NEAR APEX OF THE HEART; UNLOCK, ADVANCE AND ROTATE CIRCULAR CUTTER TO ENTER PERICARDIUM ADVANCE ENDOSCOPIC CANNULA TO ENTRY OF THE TRANSVERSE へ くら PERICARDIAL SINUS REMOVE PERICARDIAL ENTRY INSTRUMENT AND INSERT PROBE OR SHEATH INTO WORKING CHANNEL 237 OF THE ENDOSCOPIC CANNULA TO FIG. 26 FIGURE 2a

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From Fig. 2a ADVANCE PROBE OR SHEATH TO THE END OF THE TRANSVERSE PERICARDIAL SINUS REMOVE ENDOSCOPIC CANNULA FROM BODY, LEAVING PROBE OR SHEATH IN PLACE IN TRANSVERSE PERICARDIAL SINUS REINSERT ENDOSCOPIC CANNULA ALONGSIDE THE PROBE OR SHEATH; AND INSERT PERICARDIAL ENTRY INSTRUMENT IN WORKING CHANNEL **GRASP PERICARDIAL REFLECTION** ON FLOOR OF THE TRANSVERSE ~ 45 PERICARDIAL SINUS ENTER INTO TRANSVERSE PERICARDIAL SINUS RETRACT PROBE OR SHEATH Partially out of transverse \sim 49 PERICARDIAL SINUS GRASP PERICARDIAL REFLECTION ~ 5 AT END OF TRANSVERSE SINUS CREATE AN OPENING IN PERICARDIAL REFLECTION AT ~ 53 END OF TRANSVERSE SINUS GRASP PROBE OR SHEATH WITH PERICARDIAL ENTRY INSTRUMENT AND ADVANCE ~ THROUGH OPENING IN PERICARDIAL REFLECTION AT **END OF TRANSVERSE SINUS** MOVE ENDOSCOPIC CANNULA TO THE OBLIQUE PERICARDIAL SINUS TO FIG. 2C FIGURE 26

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FROM FIG. 26 GRASP PERICARDIAL REFLECTION 2 ح BETWEEN INFERIOR VENA CAVA AND RIGHT INFERIOR PULMONARY VEIN WITH PERICARDIAL ENTRY INSTRUMENT CREATE AN OPENING IN PERICARDIAL REFLECTION BETWEEN INFERIOR VENA CAVA AND RIGHT INFERIOR **PULMONARY VEIN** INSERT ENDOSCOPIC CANNULA THROUGH OPENING IN PERICARDIAL REFLECTION AND **GRASP PROBE OR SHEATH** PULL PROBE OR SHEATH THROUGH OPENING IN PERICARDIAL REFLECTION INTO OBLIQUE PERICARDIAL SINUS HOLD PROBE OR SHEATH WITH GRASPER IN OBLIQUE PERICARDIAL SINUS TO FORM A LOOP ENCIRCLING THE FOUR **PULMONARY VEINS** IF SHEATH USED, ADVANCE PROBE THROUGH SHEATH APPLY POWER TO PROBE TO ABLATE ATRIAL TISSUE AROUND THE PULMONARY VEINS

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	PERFORM A 1.5-2.0 CM SUBCOSTAL INCISION
	DISSECT BLUNTLY TO EXPOSE ANTERIOR RECTUS SHEATH
	PERFORM A 1.5-2.0 CM INCISION IN THE ANTERIOR RECTUS SHEATH
	SPREAD RECTUS MUSCLE TO EXPOSE THE POSTERIOR RECTUS SHEATH
	PERFORM A 1.5-2.0 CM INCISION IN THE POSTERIOR RECTUS SHEATH 79
	INSERT FINGER IN INCISION IN POSTERIOR RECTUS SHEATH TO FORM 6 A TRACT TO THE
	INFERIOR BORDER OF THE COSTAL MARGIN
	INSERT ENDOSCOPIC CANNULA INTO TRACT
·	ADVANCE ENDOSCOPIC CANNULA THROUGH MUSCULAR DIAPHRAGM INTO PLEURAL CAVITY
	INSERT PERICARDIAL ENTRY INSTRUMENT INTO ~ &7 WORKING CHANNEL OF THE ENDOSCOPIC CANNULA
	GRASP THE PLEURA OVERLYING THE APEX OF THE HEART
FLGURE	WITH THE PERICARDIAL ENTRY INSTRUMENT TO FIG. 36

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FICH. Ba CREATE AN OPENING THROUGH THE PLEURA **GRASP THE PERICARDIUM** OVERLYING THE APEX 31 OF THE HEART WITH THE PERICARDIAL ENTRY INSTRUMENT CREATE AN OPENING THROUGH THE **PERICARDIUM** INSERT THE ENDOSCOPIC CANNULA THROUGH THE **OPENING TO ACCESS** THE HEART

Figure 3 b